

## Product datasheet for **MC206041**

### Siah2 (BC058400) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Siah2 (BC058400) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Siah2
Synonyms:	AA415433; Sinh2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC058400  
 GCTGGAGTCGGTCCGGTTCGGCTAGGTCCCCTGGGAAGGGTCGGGAGACTCGGGCTACGTCCTTTCCCT  
 GGGCTGCCGGCTTCCACTGTCCAGAGAAGCGACCCACGCGCGGGATCGACTCATTCAAGGGCTCCC  
 AGCGAGAAACCCTCGGGCGCTGCCAGCTGGGTCCGGCGGAGCTGCGCGGGCCGAGGGTGGCTTGCC  
 AGTCCCTGAGTGCCGGGTCCGCCGACACGTGTCTTAGCGTCACGTCCGCGCGCCCCCGGGCTTGCG  
 TCAGTCCCGCTCCTGAAGCGAGTGGGCCAGGGCTCTGCGCACCAGAACCGCCCGGAGGAGGGCACCCG  
 ACGGCCGAGAGCCCGAGAGCGACGACCATCCGGGTGCCGCCGAGAGGATCGGGCGGGTCCGGTCCCCG  
 CCTCCCGGTGCCGGTCCGGTCCGGCTGGGTCCCCGGGTGGCGCCGTGGCGTTGCCCGGAGCCCGC  
 CACCCGCGGGGCGCGCACCGCTTAACCCGGGCGCCCCGCGGCAGGCAGACGCCCGAGGTCCATGGTG  
 GGCTCGGAGCGGATGAGCCGCCGTCTCCACCGGCCAGCGCTAACAAACCTGCAGCAAGCAGCCG  
 CCGCCGCTCAGACCCCGACGCCCGTCCCCGGTCCGCCCGGGCGCCGCCACCATCTCGGCAGCGG  
 GCCCGGCTCGTCCGGTCCCGCGCGGCGAGCGGTGATCTCAGGCCCGGAGCCGGCGGGGCGCA  
 CCCGGTCCCGCGACACCAGAGCTGACCTCGCTCTCGAGTGCCCGTCTGTTTGACTATGCTCTG  
 CCCCCATTCTGCAGTGCCAGGCCGGCACCTGGTGTGAACCAATGCCCCAGAAGTTAAGCTGCTGCC  
 CGAGTGCAGGGCGCCCTAACGCCAGCATCAGGAACCTGGCTATGGAGAAGTGCCTCGGCAGTTCT  
 GTTCCCTGTAAGTATGCTACCACGGGTGTTCCCTGACTCTACACCATACAGAGAAACCAGAGCATGAA  
 GACATCTGTGAATACCGTCTTATTCTGTCTTGTCTGGTGCCTGCAAGTGGCAGGGATCCCTGG  
 AAGCTGTGATGTCCATCTCATGCATGCCACAAGAGTATCACTACCCCTCAGGGAGAGGACATAGTCTT  
 TTAGCTACAGACATTAACCTGCCAGGGGTGTGGACTGGGTGATGATGCAGTCTGTTTGGCCACCAC  
 TTCATGCTGGTACTTGAAAAGCAAGAGAAGTACGAAGGCCACCAGCAGTTCTTGGCCATCGTCTCTCA  
 TTGGCACCCGAAAGCAAGCTGAGAACTTGCCTACAGACTGGAGTTGAATGGGAACCGGAGGAGACTGAC  
 CTGGGAGGCCACACCTCGGTCCATTTCATGATGGGTGGCTGCAGCCATCATGAACAGTACTGTCTTGT  
 TTTGACACAGCCATAGCACATCTTTGCAGATAATGGGAACCTTGAATCAATGCAGATATCTACAT  
 GCTGTGAGTCCAGGAGGCTTTCCTAACCTGGGAAGTTATTTGGCATAGCGCTCTATGTTTAA  
 TAAAGTTTTTTAATAGATGTTTTATTTCAGTACATCTTCCGAGGCGAGACCCACAACCTGTCTATGTTT  
 TATTTAATGATAGTTCCTGTCTGGCACTGATGAATCTAAGTTCACCGAAGTGTGATAATCGGAGTTGG  
 CCTGTTAGTAATTTGGAGGTGGTTCGGTATCTCAAATCAACTCTATTCTATTTCCCTGAAACAGCTC  
 TTGACAGATCGCTCAGGGTGCCTCCCCCTGCCTCATCCTGAGCCAACAAAAGCACAGTACTTCTGGA  
 GAGTCCCGTTATTTCTAGGAGGTAGCAGTTGCTTAAATACCTTTCAGGCTGGGTATTTACACAGAATCAC  
 CTGTAGTACTCATTTCAACACAGAGCTAGAGAATCAACAGAGTTGAGCAACCTCCTCATCTCAGAGTTT  
 GAGGATTACTGGCTTGAATTGTGGCAAGGGTCCAGGATCTAAAGTGTCTTAAAGCGTCTCTGCTGAC  
 ACTGTTGGTCTCTACTGTCCGTCTCAGCTCTGCACACACCACATGGAGACCAGAACTCTAAATCCATG  
 GGGATGCAACCCCTGGGTTGGCCTGCTTTCAGGCGCTCAGTGAGTTGAGAGTTCTCACAGTTAGTTGTT  
 GCTCACCATAGTACGGATGACTTGTTCACATATGGCTTCCCTTGGAAAGCCCTCCTTGACTGTAAGTATG  
 TGAGAGACTAGATCAGTCTGGGAGAAGTTGATAACCAAGTGTGCATGCTTGCATTTTAAAAGCATGT  
 GTCAGTTGTGGGTTTGTGTTTTGTTTTGTTTTTATCTTTACATACGCGCACACACATACACACA  
 CACTTTAATTTTTAATAAAATTTTTTCAATAAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** BC058400

**Insert Size:** 978 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [BC058400](#), [AAH58400](#)

**RefSeq Size:** 2511 bp

**RefSeq ORF:** 978 bp

**Locus ID:** 20439

**Cytogenetics:** 3 28.68 cM

**Gene Summary:** E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:11257006, PubMed:14645235, PubMed:14645526, PubMed:17003045, PubMed:9637679, PubMed:26070566). E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (PubMed:11257006, PubMed:14645235, PubMed:14645526, PubMed:17003045, PubMed:9637679, PubMed:26070566). Mediates E3 ubiquitin ligase activity either through direct binding to substrates or by functioning as the essential RING domain subunit of larger E3 complexes. Mediates ubiquitination and proteasomal degradation of DYRK2 in response to hypoxia. Promotes monoubiquitination of SNCA (By similarity). Triggers the ubiquitin-mediated degradation of many substrates, including proteins involved in transcription regulation (GPS2, POU2AF1, PML, NCOR1), a cell surface receptor (DCC), an antiapoptotic protein (BAG1), and a protein involved in synaptic vesicle function in neurons (SYP) (PubMed:11257006, PubMed:14645235, PubMed:14645526, PubMed:17003045, PubMed:9637679, PubMed:26070566). It is thereby involved in apoptosis, tumor suppression, cell cycle, transcription and signaling processes. Has some overlapping function with SIAH1. Triggers the ubiquitin-mediated degradation of TRAF2, whereas SIAH1 does not. Regulates cellular clock function via ubiquitination of the circadian transcriptional repressors NR1D1 and NR1D2 leading to their proteasomal degradation. Plays an important role in mediating the rhythmic degradation/clearance of NR1D1 and NR1D2 contributing to their circadian profile of protein abundance (PubMed:26392558).[UniProtKB/Swiss-Prot Function]